CLAIMS

What is claimed is:

1.   A method comprising:

identifying data for transmission;

determining a number of time-slots available for the transmission; and

identifying a data packet from a plurality of data packets to transmit a

portion of the data.

2.   The method of claim 1, wherein the identifying the data packet includes

identifying a data packet from the plurality of data packets which can transmit a

largest portion of the data within the time-slots available.

3.   The method of claim 1, wherein the data includes at least a minimum

amount of data required by the data packet.

4.   The method of claim 1, further comprising identifying a data packet from a

plurality of data packets to transmit all the data.

5.   The method of claim 1, wherein the identifying the data packet includes

identifying a data packet from the plurality of data packets which is least prone to

a transmission error.

6.   The method of claim 1, wherein the identifying the data packet includes identifying a data packet which can be transmitted in a transmitter logic low power mode.

7.   A computer-readable medium having stored thereon a set of instructions to translate instructions, the set of instructions, which when executed by a processor, cause the processor to perform a method comprising:

     identifying data for transmission;

     determining a number of time-slots available for the transmission; and

     identifying a data packet from a plurality of data packets to transmit a portion of the data.

8.   The medium of claim 7, wherein the identifying the data packet includes identifying a data packet from the plurality of data packets which can transmit a largest portion of the data within the time-slots available.

9.   The medium of claim 7, wherein the data includes at least a minimum amount of data required by the data packet.

10.   The medium of claim 7, further comprising identifying a data packet from a plurality of data packets to transmit all the data.

11.   The medium of claim 7, wherein the identifying the data packet includes identifying a data packet from the plurality of data packets which is least prone to a transmission error.

12.   The medium of claim 7, wherein the identifying the data packet includes identifying a data packet which can be transmitted in a transmitter logic low power mode.

13.   A computing system comprising:

a first programmable module to identify data for transmission;

a second programmable module to determine a number of time-slots available for the transmission; and

a third programmable module to identify a data packet from a plurality of data packets to transmit a portion of the data.

14.   The computing system of claim 13, wherein the computing system includes a computer network router.

15.   The computing system of claim 13, wherein the third programmable module identifies a data packet least prone to a transmission error.

16.   The computing system of claim 13, wherein the third programmable

module identifies a data packet which can be transmitted in a transmitter logic

low power mode.